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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

10/533015

Applicant: Kazuyoshi Yano, Isao Karube, Atsunori Hiratsuka and Shuo-Wen Tsai

Application No.: 10/533,015

Group Art Unit: Not assigned

U.S. National Stage of

International Application Filed: October 28, 2003

Examiner: Not assigned

Confirmation No.: 1671

Title: METHOD FOR CONTROLLING SUBSTANCE TRANSFER (AS AMENDED)

Date: 1-30-06

EXPRESS MAIL LABEL NO. EV 214904001 US

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application file.

(File date: payment of issue fee)
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.K./

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
 - ☒ Copies of the cited references B1 - B10, and C1 - C3 are enclosed.
 - ☐ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
 - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
 - ☒ The listed references B1, B3 and B5 were cited in the enclosed International Search Report, in a counterpart foreign application, and on the enclosed Preliminary Report on Patentability and the Written Opinion.
 - ☒ The "concise explanation" requirement (non-English references) for references B2, B3, B5, B7- B9 under 37 CFR 1.98(a)(3) is satisfied by:
 - ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☒ submission of the enclosed International Search Report.
 - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
 - ☒ the enclosed English language abstract.
 - ☒ the enclosed English language patent application which is substantially cumulative. Listed references B7 and B8 issued for the same patent. Listed reference B10 is the International Application of listed reference B9.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's
 Initials

____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

 Examiner

 Date

☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.

(Affix a label or apply the stamp "Non-Published IDS Reference - Do Not Scan" to the front of each unpublished pending appl'n.)

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

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Dated: January 30, 2006

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.K./

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|----------------------------------------|--|
| PTO 1449 REPRODUCED | | ATTORNEY DOCKET NO. 3462.1014-000 | | APPLICATION NO. 10/533,015 | |
| INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION January 30, 2006 (Use several sheets if necessary) | | | | FIRST NAMED INVENTOR Kazuyoshi Yano | |
| | | | | FILING DATE IA filed: 10/28/03 | |
| EXAMINER | | CONFIRMATION NO. 1671 | | GROUP | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|------------------------------------------------|------------------------------------------------|----------------------------------------------------|--|
| EXAMINER INITIAL | REF. NO. | DOCUMENT NUMBER Number-Kind Code (if known) | ISSUE DATE / PUBLICATION DATE MM-DD-YYYY | NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT | |
| | A1 | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----|----------------------------------------------------------------|--------------------|----------------------------------------------------|-----------------------|---|
| | | DOCUMENT NUMBER Country Code-Number-Kind Code (if known) | DATE MM-DD-YYYY | NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT | TRANSLATION YES NO | |
| /R.K./ | B1 | WO 00/52458 A1 ✓ | 09-08-2000 | Karube, Isao | X | |
| | B2 | JP 58-193446 A ✓ | 11-11-1983 | Hitachi Ltd. | | |
| | B3 | JP 61-288148 A ✓ | 12-18-1986 | Shimadzu Corp | | |
| | B4 | JP 7-18840 ✓ | 03-06-1995 | Shimadzu Corp | X | |
| | B5 | JP 2 151758 A ✓ | 06-11-1990 | Bio-Rad Laboratories, Inc. | | |
| | B4 | JP 2701943 ✓ | 10-03-1997 | Bio-Rad Laboratories, Inc. | X | |
| | B2 | JP 11-30605 ✓ | 02-02-1999 | Bio-Rad Laboratories, Inc. | X | |
| | B4 | JP 3042774 ✓ | 03-10-2000 | Bio-Rad Laboratories, Inc. | | X |
| | B9 | JP 2004 510168 ✓ | 04-02-2004 | Proteome Systems Ltd. | | X |
| | B10 | WO 02/26773 ✓ | 04-04-2002 | Proteome Systems Ltd. | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
|------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /R.K./ | C1 | Paegel, Brian M., <i>et al.</i> , "Microfabricated Capillary Array Electrophoresis: High-Throughput DNA Sequencing and Polymorphism Analysis," <i>Micro Total Analysis Systems</i> , pp. 462-464 (2001). |
| | C2 | Rocklin, Roy D., <i>et al.</i> , "A Microfabricated Fluidic Device for Performing Two-Dimensional Liquid-Phase Separations," <i>Anal. Chem.</i> , 72:5244-5249 (2000). |
| | C3 | Chen, Xiaoxi, <i>et al.</i> , "A Prototype Two-Dimensional Capillary Electrophoresis System Fabricated in Poly(dimethylsiloxane)," <i>Anal. Chem.</i> , 74:1772-1778 (2002). |

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|-----------------------------|-------------------------------|
| EXAMINER /Robert Kasten/ | DATE CONSIDERED 05/06/2009 |
|-----------------------------|-------------------------------|

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.K./